Notice of Allowability **Richard Hanig** **The MAILING DATE of this communication appears on the cover sheet with the correspondence address-all claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included forewalf; for proviously mailed), a Motice of Allowance (PTOL-89) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWAGILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MFEP 1308. 1. This communication is responsive to 2. The allowed claim(s) islare 1.13. 3. The drawings filed on ere accepted by the Examiner. 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. SC certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2a)). *Certified copies not received: Applicant has THEEE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the strached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the eath or declaration is deficient. (a) Including changes required by the altached Examiner's Amendment / Comment or in the Office action of Papar No./Mail Date		Application No.	Applicant(s)		
Richard Hanig 2873		10/631,854	IWATSUKA, SHINJI	l	
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address—Alciaims being allowable, PROSECUTION ON THE MERTIS IS (OR REMAINS) CLOSED in this application in the delication with the mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. □ This communication is responsive to	Notice of Allowability	Examiner	Art Unit		
All claims being allowable, PROSECUTION ON THE MERTIS IS (OR REMAINS) CLOSED in this application. If not include herewith (or previously mailed), a Notice of Novance (FTOL-89) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or top on petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to 2. The allowed claim(s) isfare 1.13. 3. The drawings filed on are accepted by the Examiner. 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of the: 1. Cartified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). **Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONINENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the cath or declaration is deficient. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) In Paper No./Mail Date (b) A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL must be submitted. Note the altached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. DEPOSIT OF and/or INFORMATION booth the d		Richard Hanig	2873		
2. ☑ The allowed claim(s) Is/are 1-13. 3. ☐ The drawings filed on are accepted by the Examiner. 4. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in Application No 4. ☐ Certified copies not received: Applicant has THREE MONTHS FROM THE *MAILING DATE* of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the strached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. ☑ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
3. ☐ The drawings filed on are accepted by the Examiner. 4. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ② Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). **Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to linely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.** 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. ☑ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☑ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (c) ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. **Attachment(s)** 5. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 99/02/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	1. This communication is responsive to				
4. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ② Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in Application No 4. ☐ Certified copies not received: Applicant has THREE MONTHS FROM THE "MALLING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. ☑ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☑ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 1 ☐ dentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's Comment Regarding Requirement for Paper No./Mail Date 8. ☑ Examiner's Amendment/Comment Paper No./Mail Date 9. ☐ Other Authorized Reparation Requirement for Deposit of Biological Material	2. The allowed claim(s) is/are 1-13.				
a) All b) Some* c) None of the: 1. Cortified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). **Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.** 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) Parento or 2) Depar No./Mail Date (b) Sincluding changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) Parento or 2) Depar No./Mail Date (b) Sincluding changes required by the Altached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (c) Sincluding changes required by the Altached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (dentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 1. Discos of References Cited (PTO-892) 2. Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 99/02/03 4. Examiner's Comment Regarding Requirement for Deposit 5. Notice of Informal Patent Application (PTO-152) 8. Examiner's Statement of Reasons for Allowa	3. The drawings filed on are accepted by the Examine	r.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 09/02/03 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 5. Notice of Informal Patent Application (PTO-152) 8. Examiner's Amendment/Comment 9. Other 9. Other 9. Other 9. Other	 a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM	e been received. e been received in Application No cuments have been received in this	national stage applica		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 7. ☒ Examiner's Amendment/Comment Paper No./Mail Date 09/02/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 3. ☐ Other Gental Etymanics Gental Etymanics Adams. Adams. Adams.					
1)	6. X CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(b) ☑ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. □ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. □ Notice of References Cited (PTO-892) 2. □ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date Paper No./Mail Date 09/02/03 4. □ Examiner's Comment Regarding Requirement for Deposit of Biological Material 9. □ Other Gentale ENGS.	(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. □ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. □ Notice of References Cited (PTO-892) 2. □ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment Paper No./Mail Date 9. □ Other Geatala Epus	1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 09/02/03 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 5. Notice of Informal Patent Application (PTO-152) 6. Interview Summary (PTO-413), Paper No./Mail Date		s Amendment / Comment or in the O	ffice action of		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 09/02/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material Attachment(s) 5. ☐ Notice of Informal Patent Application (PTO-152) 6. ☑ Interview Summary (PTO-413), Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance of Biological Material				e back) of	
 Notice of References Cited (PTO-892) Notice of Informal Patent Application (PTO-152) Notice of Informal Patent Application (PTO-152) Information Disclosure Statements (PTO-1449 or PTO/SB/08),				Note the	
Paper No./Mail Date 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 09/02/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance 9. ☐ Other Georgia Epps Georgia Epps	1. Notice of References Cited (PTO-892)	<u> </u>		O-152)	
Paper No./Mail Date 09/02/03 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 9. Other Georgia ENS Georgia ENS Georgia ENS OT Patent Examiner's Statement of Reasons for Allowance	<u> </u>	Paper No./Mail Dat	e		
of Biological Material 9. Other Georgia Epps Georgia Epps	Paper No./Mail Date <u>09/02/03</u>	- · · · <u>-</u>		nwanco.	
Georgia Epps Georgia Epps Georgia Examiner			ant of Acasons for Alle	J. 1100	
T-ARIHHHII VY		Georgia Epps Georgia Epps And Patent Examiner			

DETAILED ACTION

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Joel Armstrong on 09/07/04.

The application has been amended as follows:

In the Abstract

Delete the abstract and substitute the following: --To provide a magneto-optic optical device, such as a variable optical attenuator, an optical modulator or an optical switch, that is small, has a low power consumption and has high speed. The above object is achieved by a magneto-optic optical device characterized by comprising at least one magneto-optical crystal, a magnetic field application mechanism for applying to the magneto-optical crystal a magnetic field component in a direction vertical to a light entrance/exit plane, and at least one electromagnet for changing a position where the magnetic field component applied to the magneto-optical crystal becomes zero.--

In the Specification

On page 5, second line from the bottom, change "0" to --zero--.

Art Unit: 2873

In the Claims

In claim 1, last line, change "0" to --zero--.

In the Drawings

Figs. 13A and 13B should be labeled prior art.

2. The following is an examiner's statement of reasons for allowance: The reference Umezawa et al (5521741) in fig. 6 shows for a magneto-optic optical device the magnetic field going to zero, but does not have a means for changing the position where the magnetic field component applied to the magneto-optical crystal goes to zero. Note: The reasons for examiner's amendment, the abstract was too long and didn't capture the essence of the claims, and claim 1 is clearer and searchable writing out the value of the magnetic field.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Hanig whose telephone number is 571-272-2329. The examiner can normally be reached on M-F: 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Georgia Epps
Supervisory Patent Examiner
Technology Center 2800

8/1K/04